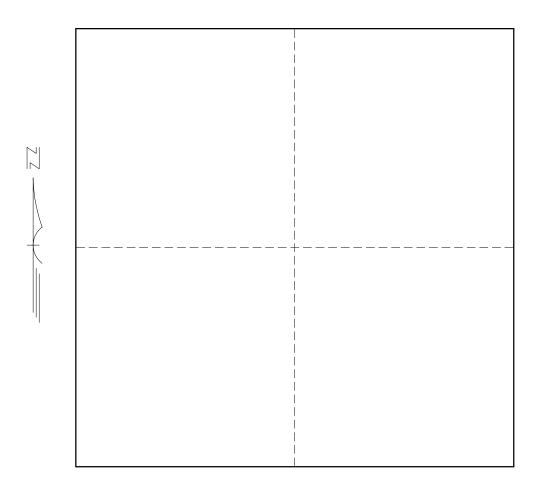
GRADIENT TERRACE DESIGN

Job Name			Job Class	S		
Location	(SWCD)	(near)				
Ву			Date			
Checked by						

Gradient Terrace Design Procedure

- 1. Make trial terrace system layout keeping in mind terrace standard limitations.
- 2. Check trial layout with USLE to see that the predicted soil loss, A, is less than the allowable soil loss, T.
- 3. Adjust the trial layout and/or management practices as necessary.
- 4. Determine peak runoff for each terrace in the system.
- 5. Determine the configuration for each terrace in the system.

Terrace System Layout



Check Trial Layout With USLE

Peak Runoff (cfs)

Soil Series		Allowable	e Soil Loss –	T =		tons/acre/year	
Soil Erodibility Factor —	K =						
Cropping Sequence							
Management Practices							
Cropping Management Fa	ctor - C =						
Erosion Control Practice _							
Erosion Control Practice	Rainfall Factor - R =						
	Ter. No	Ter. No	Ter. No	Ter. No	Ter. No	Ter. No	
Field Slope %							
Slope Length (feet)							
LS Factor							
Predicted Soil Loss - A							
Where $A = R K LS C F$							
Continue if A is less tha	n T — If not, o	adjust layout o	and/or manage	ement practices	as necessary		
Determine Peak Runoff F	or Each Terrace	е					
Design Frequency		years	Hydrol	ogic Soil Group			
Runoff Curve Number			Storm	Distribution Typ	oe		
24-Hour Rainfall		inches					
	Ter. No	Ter. No	Ter. No	Ter. No	Ter. No	Ter. No	
Watershed Area (acres)							
Average Watershed Slope							
4% Slope, Q (cfs)							
16% Slope, Q (cfs)							
	2						
	1.5						
	S. 10						
	. 8						
	7 M 6						
	Ē į						
	Pedk						
	3						
	2.5						
	2 1	2 3 4	5 6 7 8 9 1		30 40		
		Avero	ige Watershed	Slope – %			

Determine The Configuration For Each Terrace

Terrace No. _____

Terrace No. _____

$$s = \underline{\hspace{1cm}} ft/ft$$

Terrace No. _____

Terrace No. _____

Terrace No. _____

$$s = \underline{\hspace{1cm}} ft/ft$$

Terrace No. _____